

S/N 10/044,796

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant:

LOSKUTOFF ET AL.

Examiner:

V. AFREMOVA

Serial No.:

10/044,796

Group Art Unit:

1651

Filed: Title: OCTOBER 11, 2002 Docket No.:

13511.1USU1

SEMEN EXTENDER COMPOSITION AND METHODS FOR MANUFACTURING AND USING

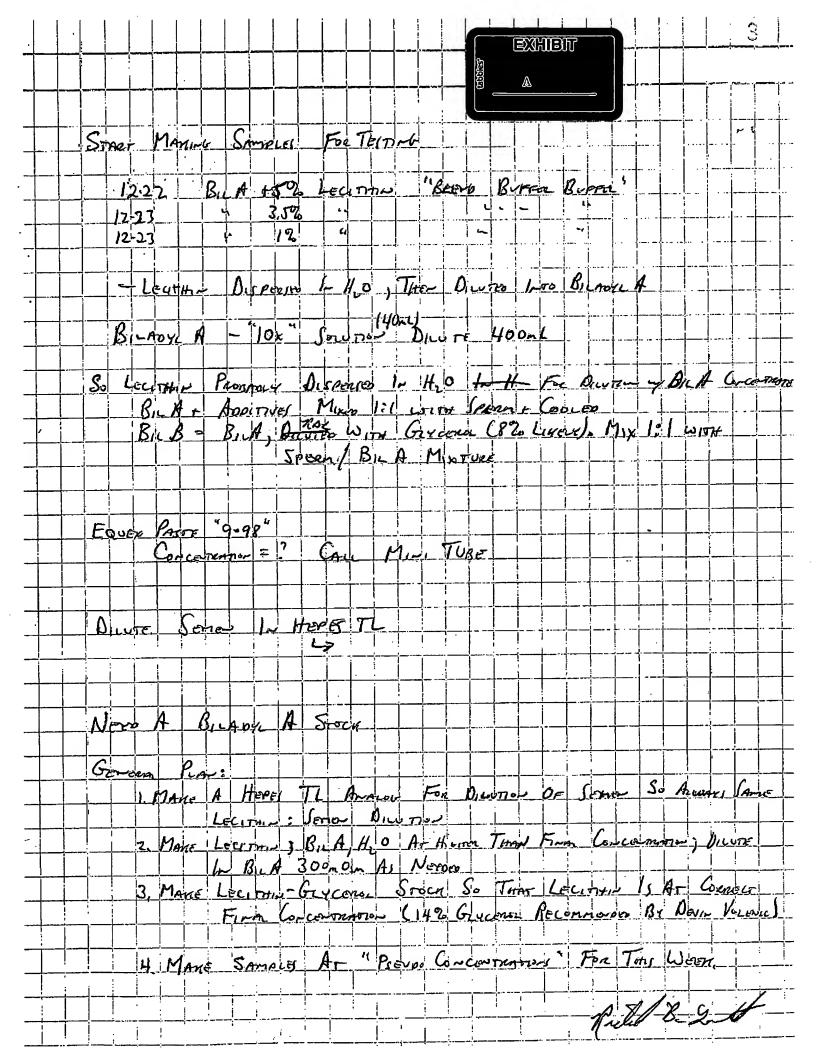
Declaration under 37 C.F.R. §1.131

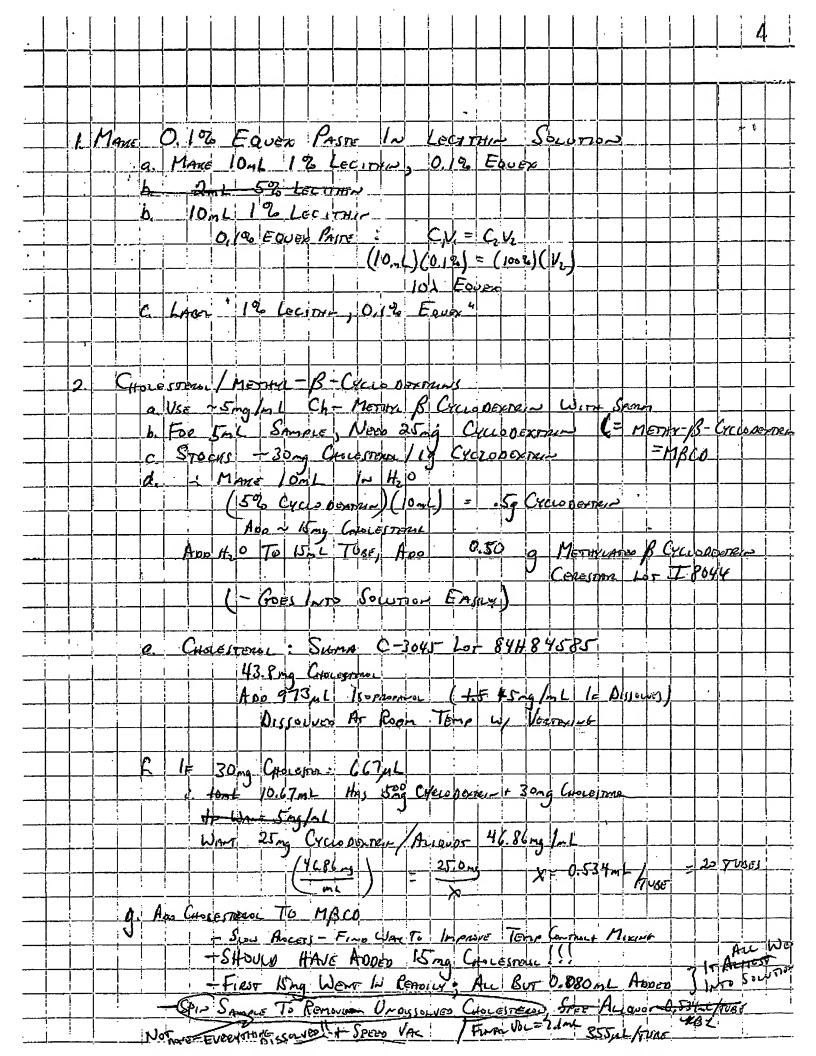
I, Richard B. Lomneth, Ph.D. declare as follows:

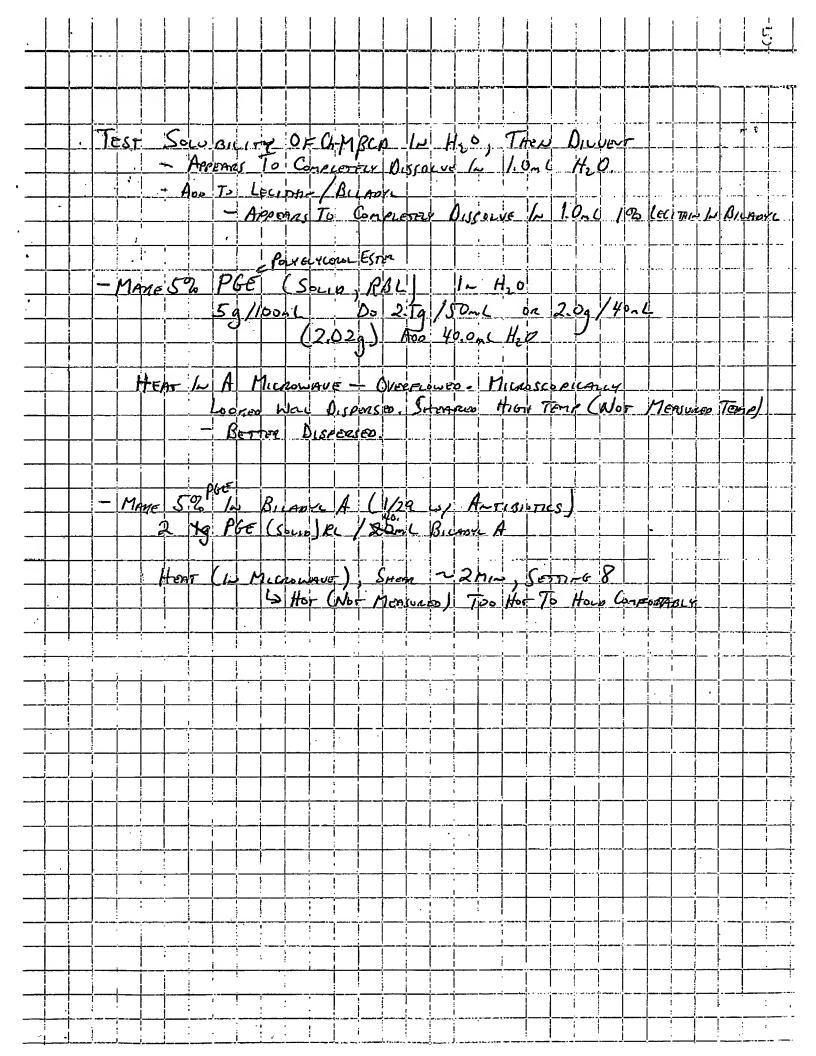
- I am one of the originally named inventors of the above-identified patent application.
- 2. Attached as Exhibit A are pages 3-6 from a laboratory notebook. These pages have been redacted to cover the dates in the upper right hand corners. The dates are all prior to May 14, 1999. The handwriting on the pages of laboratory notebook in Exhibit A is mine, and the reported compositions were prepared by me prior to May 14, 1999.
- 3. Sample 2 reported on laboratory notebook page 6 provided as Exhibit A identifies a sample I prepared containing 1 wt.% lecithin, 0.5 ml Biladyl® concentrate, 0.1 wt.% Equex, and water to 5 ml. To the 5 ml composition, 0.7 ml glycerol was added. Biladyl® is available from Minitüb GmbH, Germany. Biladyl® contains carbohydrate and buffer. Attached as Exhibit B is a product sheet for Biladyl®. In addition, Biladyl® is identified by the above-identified patent application at, for example, page 14, lines 15-18. Equex contains sodium lauryl sulfate as a surfactant and is identified by the above-identified patent application at page 16, line 11 through page 17, line 8 wherein "EQ" refers to Equex.

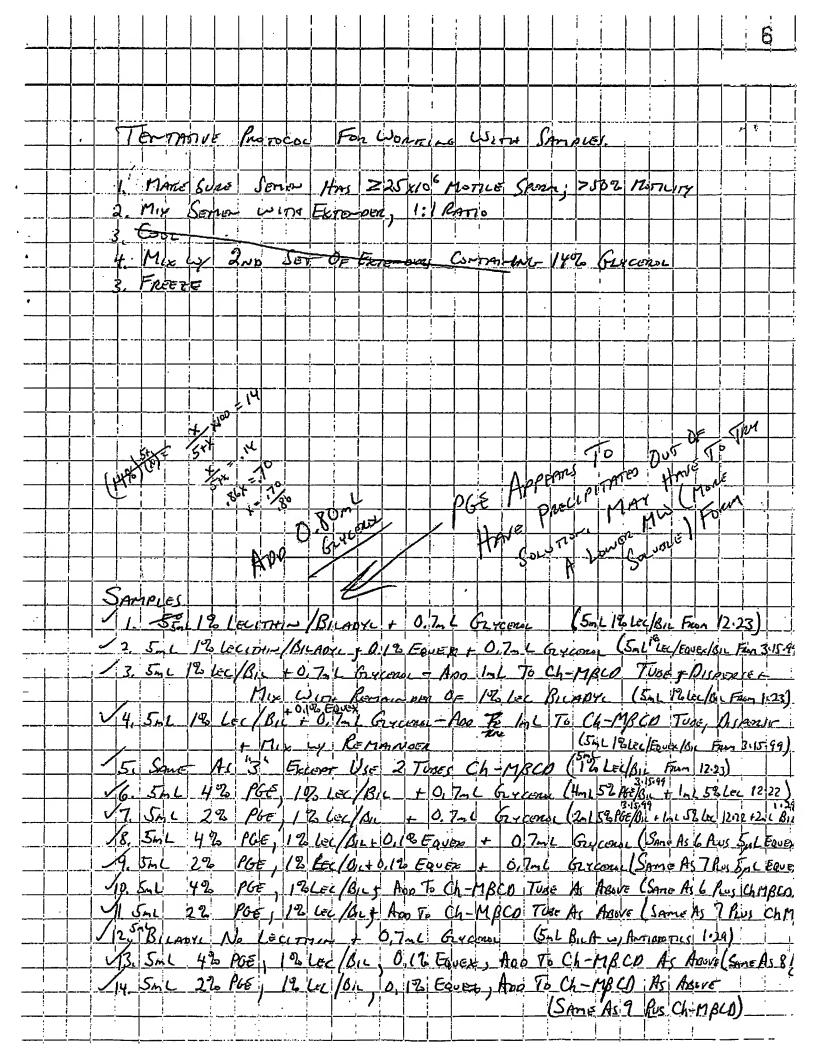
- 4. Sample 2 reported on laboratory notebook page 6 in Exhibit A describes a composition containing the components of independent claims 1 and 21 of the above-identified patent application. The phospholipid obtained from a non-animal source is satisfied by the lecithin, the surfactant to reduce ice crystal formation during freezing of the composition is satisfied by the sodium lauryl sulfate, the carbohydrate and the biological buffer are satisfied by the Biladyl® component, and the freeze agent is satisfied by glycerol. It is my belief that the composition of sample 2 exhibits a pH of about 6.9 to about 7.5 and an osmolality of about 250 mOsM to about 350 mOsM.
- 5. I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment; or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Date: Mark 29, 2005 Mill B. Lomneth, Ph.D.









BILADYL®

Preparation of COCKTAIL AB:

Add 12 ml of double distilled, sterile water, using a sterile syringe.

Final composition of reconstituted COCKTAIL AB expressed as active units of antibiotics per 0.02 ml:

100 μg Tylosin, 500 μg Gentamicin, 300 μg Lincomycin, 600 μg Spectinomycin

Usage for "Neat Semen Treatment": Add and carefully mix 0,02 ml to each ml of neat semen, using a sterile syringe.

Usage for BILADYL SOLUTION A: Add and carefully mix 10 ml to SOLUTION A, using a sterile syringe.

Preparation of SOLUTION A:

- 1) Reconstitute 49 g of SOLUTION A with double distilled sterile water to a combined volume of 390 ml.
- 2) Add 100 ml clean yolk from fresh chicken eggs.
- 3) Add 10 ml of reconstituted antibiotics COCKTAIL AB, using a sterile syringe.
- 4) Mix gently and warm mixture to + 30° C (+ 86° F)
- 5) Filter medium before adding it to semen.

Preparation of SOLUTION B:

- 1) Reconstitute 250 g of SOLUTION B with double distilled sterile water to a combined volume of 400 ml.
 - 2) Add 100 ml clean yolk from fresh chicken eggs.
 - 3) Mix gently and warm mixture to + 30° C (+ 86° F)
 - Filter medium before adding it to semen.

Usage:

Dilute semen with equal quantities of SOLUTION A and B according to the CSS Processing Regulations.

Final composition of SOLUTION A and B per 100 ml, as approved by CSS:

Yolk 20%, Glycerol 7%, Tris 2,42%, Citric Acid 1,38 g%, Fructose 1,00 g%, Active Units of Antibiotics: Tylosin 5,25 mg, Gentamicin 26,25 mg, Lincomycin 15,75 mg, Spectinomycin 31,5 mg and double distilled sterile water

Storage:

At a controlled temperature of + 5° C (+ 41° F) in a dark environment. Shelf life: 12 months.

BEST AVAILABLE COPY

Warning:

Keep out of reach of children
Not for human or animal consumption
and/or treatment
Not for injection
Not for use on live animals
Do not expose to heat or sun

Made in Germany

BILADYL IS APPROVED BY CERTIFIED SEMEN SERVICES INC.



MINITÜB GmbH · Germany Hauptstraße 41 · 8311 Tiefenbach Telefon 0 87 09 / 20 77 · Fax 31 90